



## Specification Sheet

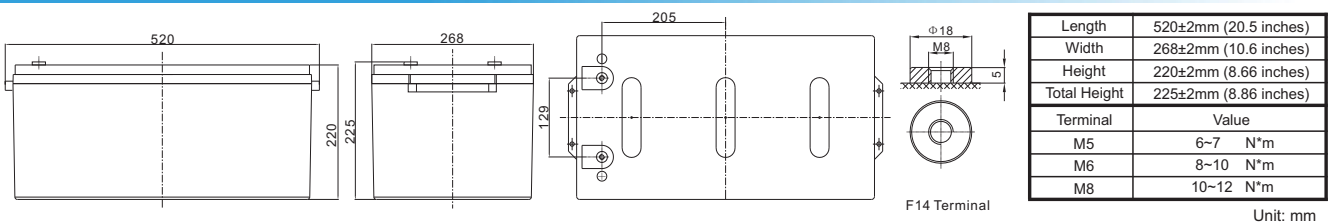
## Deep Cycle VRLA Battery

## DC12-250 (12V250Ah)

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	250Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 69.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 3.5 mΩ
Terminal	F14(M8)
Max. Discharge Current	2500A (5 sec)
Short Circuit Current	4625A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	50 A
Reference Capacity	C3 193.0AH C5 213.0AH C10 250.0AH C20 260.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



## Dimensions



### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	456.0	280.3	157.9	94.04	72.25	57.46	47.80	31.35	26.00	13.47
1.65V	427.3	265.5	152.5	90.89	70.00	55.74	44.34	31.10	25.75	13.40
1.70V	400.9	251.8	147.6	88.47	66.00	54.02	43.06	30.61	25.26	13.23
1.75V	375.5	241.8	143.0	85.07	64.25	52.55	42.58	30.12	25.11	13.00
1.80V	343.9	232.9	136.6	82.16	63.00	51.32	41.20	29.62	25.00	12.87
1.85V	284.5	197.5	122.0	75.14	60.50	48.13	40.69	27.89	23.28	12.75

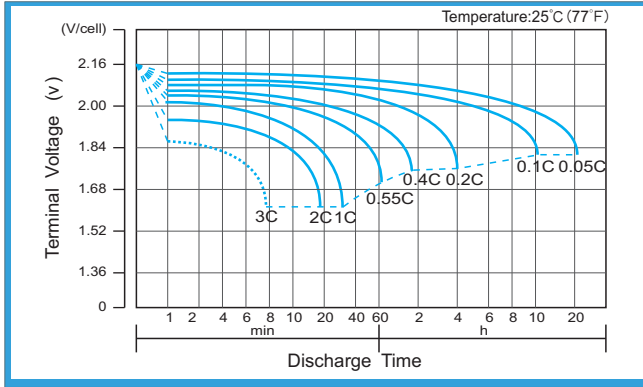
### Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	795.2	509.3	296.5	177.8	139.1	110.7	92.52	61.09	50.99	26.90
1.65V	773.2	497.4	291.4	173.0	135.6	108.0	90.02	60.61	50.50	26.66
1.70V	731.9	473.5	282.8	168.7	130.4	104.6	87.77	59.87	49.52	26.42
1.75V	690.8	456.9	275.0	162.7	127.2	102.2	85.77	58.90	49.03	25.94
1.80V	638.6	442.1	263.8	159.0	126.5	100.2	84.61	57.92	48.54	25.70
1.85V	536.5	379.2	236.9	146.4	118.0	94.3	78.26	54.74	45.84	25.46

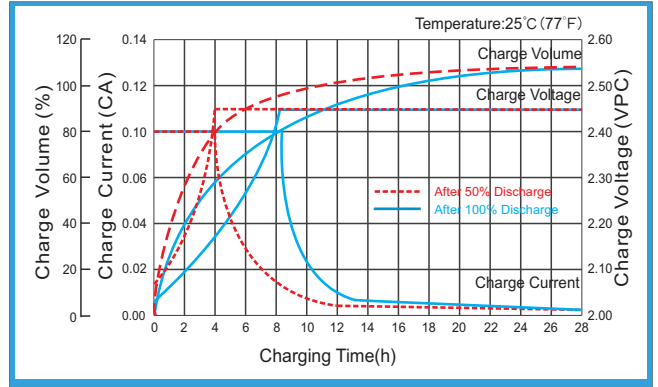
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

# DC12-250(12V250Ah-10HR)

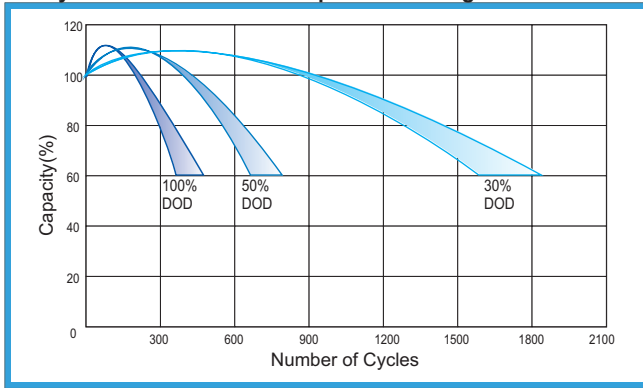
**Discharge Characteristics Curve**



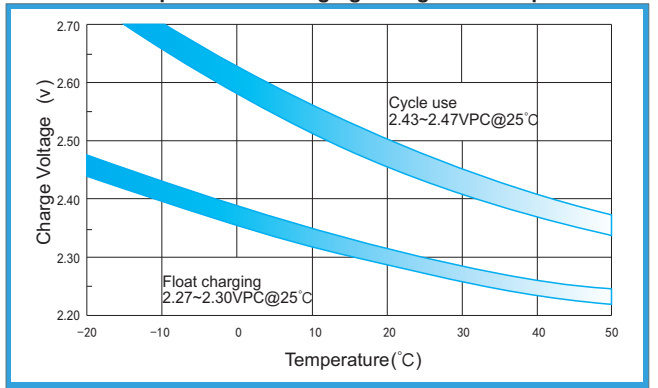
**Charge Characteristic Curve for Cycle Use(IU)**



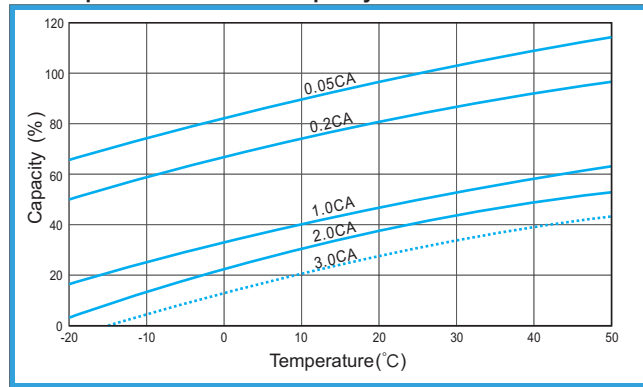
**Cycle Life in Relation to Depth of Discharge**



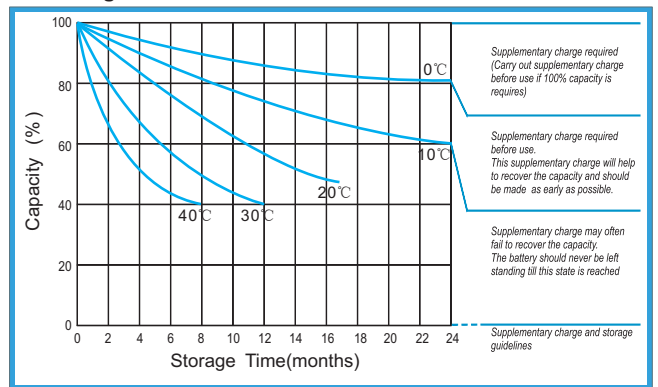
**Relationship Between Charging Voltage and Temperature**



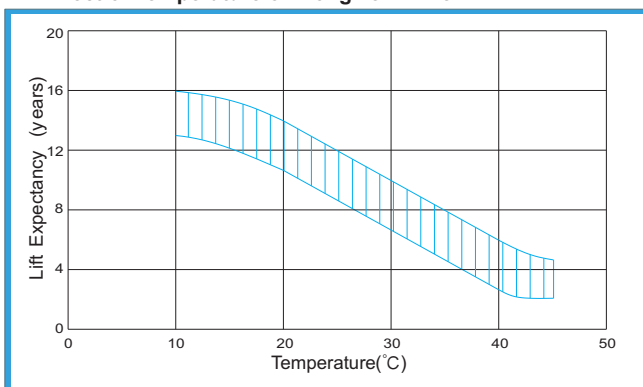
**Temperature Effects on Capacity**



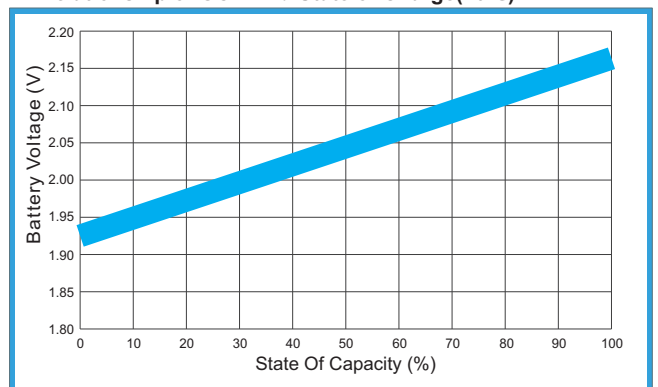
**Storage Characteristics**



**Effect of Temperature on Long Term Life**



**Relationship of OCV And State of Charge(20°C)**



(Note) All above information shall be changed without prior notice, AxiWin reserves the right to explain and update the latest information.